

OREOPHILUS: A NEW GENUS IN THE PLEUROTHALLIDINAE LINDL. (ORCHIDACEAE)

FREDY ARCHILA*

BIGU Herbarium, 1a Avenida 5–28 Zona 1 Cobán, 16001, Alta Verapaz, Guatemala. Research Associate, Marie Selby Botanical Gardens. Email: archilae@hotmail.com

WESLEY E. HIGGINS

Center for Tropical Plant Science and Conservation, Marie Selby Botanical Gardens, 811 South Palm Avenue, Sarasota, FL 34236-7726, USA.

ABSTRACT. In a 2005 publication, *Lepanthes* subg. *Brachycladium* Luer was elevated to generic level as *Brachycladium* Luer. Unfortunately, this name is already occupied at the generic level by a fungus, *Brachycladium* Corda. We create a new generic name *Oreophilus* W.E.Higgins & Archila for this group of former *Lepanthes*, and we make necessary nomenclatural combinations.

Key words: Orchidaceae, Epidendroideae, Epidendreae, Pleurothallidinae, *Oreophilus*, *Brachycladium* Corda, *Brachycladium* M.J. Berkeley, *Brachycladium* Luer, *Brachyclada* Rchb.f.

INTRODUCTION

The *Brachycladium* group of *Lepanthes* have been recognized as a distinctive group or clade by numerous orchid taxonomists, based on the following characteristics: petal not lobed, short ramicaulis, and the habit of the plants; but these species have traditionally been regarded as a section or subgenus within *Lepanthes*. Luer (2005) elevated this group of species to generic level, using the name *Brachycladium* (Luer) Luer. Unfortunately, this name is already occupied by *Brachycladium* Corda (Fungi Imperfecti), thereby rendering Luer's combinations illegitimate. The International Code of Botanical Nomenclatures governs nomenclature of plants, fungi and algae, and states "A name of a family, genus or species, unless conserved or sanctioned is illegitimate if it is a later homonym, that is, if it is spelled exactly like a name based on a different type that was previously and validly published for a taxon of the same rank." (ICBN Article 53: 53.1). Luer apparently did not realize that the name had already been used as *Brachycladium* Corda in 1838 in the *Icones Fungorum Hucusque Cognitorum* 2: 14 (1838) and as *Brachycladium* M.J.Berkeley, *Ann. Mag. Nat. Hist. ser. 2*: 2: 382. t. 11, f. 2. (1848).

A new generic name is required for these taxa. We initially considered the name *Brachycladus* (from the section *Brachycladae* Rchb.f.), but rejected it because of its similarity to a genus of Asteraceae (*Brachyclados* D.Don; *Brachycladus* Speg.). Instead, we suggest the generic name

Oreophilus ("mountain-loving"), alluding to the montane habitat of this group of species.

TAXONOMIC TREATMENT

Oreophilus W.E.Higgins & Archila gen. nov.

TYPE: *Lepanthes nummularia* Rchb.f., *Xenia* Orchidaceae 1: 142, 1856.

Synonyms.

Lepanthes sect. *Brachyclada*, Rchb.f., *Xenia* Orchid. 1: 142. 1858.

Lepanthes subgen. *Brachycladium* Luer, *Monogr. Syst. Bot.* 15: 31, 1986.

Lepanthes sect. *cauliscientes* Garay, *Canad. J. Bot.* 34: 252, 1956. *Nomen Nudum*.

Brachycladium (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 307. 2005.

Axes secundarii quam primarii breviores cum axi primario acutangulo ascendentes, hinc quasi distichifolia visa.

Etymology. Latin *Oreophilus*; mountain loving.

New Combinations

1. ***Oreophilus ariasianus* (Luer & L.Jost) Archila comb. nov.**

Basionym. *Lepanthes ariasiana* Luer & L.Jost, *Monogr. Syst. Bot. Missouri Bot. Gard.* 72: 104, 1998.

Synonym. *Brachycladium ariasianum* (Luer & L.Jost) Luer.

Etymology. Named for Diego Arias, founder of the Llanganetes Foundation.

* Corresponding author.

Ecuador: Cerro Abitagua, ca. 1860 m, Tungurahua, 17 Jun 1998, *L.Jost 1063*, (Holotype MO).

2. *Oreophilus cardiochilus* (Luer & R.Escobar) Archila comb. nov.

Basionym. *Lepanthes cardiochila* Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 52: 6, 1994.

Synonym. *Brachycladium cardiochilum* (Luer & R.Escobar) Luer.

Etymology. From the Greek *cardiocheilos* “a heart-shaped lip” in reference to the labellum.

Colombia: Dept. of Risaralda, epiphytic in forest remnant above Pereira, alt. ca. 2000 m, collected by A. de Wilde, flowered in cultivation by A. de Wilde, 10 May 1993, *C.Luer 16773*.

3. *Oreophilus catellus* (Luer & R.Escobar) Archila comb. nov.

Basionym. *Lepanthes catella* Luer & R.Escobar, Orquideología 16: 10, 1983.

Synonym. *Brachycladium catellum* (Luer & R.Escobar) Luer.

Etymology. From the Latin *catella* in allusion to neat rows of leaves in a pendent chain.

Colombia: Dept. of Boyacá, epiphytic in wet forest between Arcabuco and Moniquirá, alt. 250 m, 26 Apr 1982, *C.Luer, R.Escobar, & D.Portillo 7554* (Holotype MO).

4. *Oreophilus chilopsis* (Luer & Hirtz) Archila comb. nov.

Basionym. *Lepanthes chilopsis* Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 88 (2002).

Synonym. *Brachycladium chilopse* (Luer & Hirtz) Luer.

Etymology. From the Greek, *cheilopsis* “like a lip.”

Ecuador: Morona-Santiago; new road from Macas to Guamote, at the junction between Rio Colimbo and Rio Upano, alt. 1600 m, 1 Mar 2001, *C.Luer, J.Luer, & A.Hirtz 19588* (Holotype MO).

5. *Oreophilus ciliaris* (Luer & Hirtz) Archila comb. nov.

Basionym. *Lepanthes ciliaris* Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard., 52: 8, 1994.

Synonym. *Brachycladium ciliare* (Luer & Hirtz) Luer.

Etymology. From the Latin *ciliaris* with cilia, referring to the long ciliate floral parts.

Ecuador: Prov. of Napo; epiphytic forest on the western flank of Reventador Volcano, alt. 1550 m, Apr 1986, *A.Hirtz 2887* (Holotype MO) C. Luer illustr. 14699. Prov. of Sucumbios between el Carmelo and la Bonita, alt. 2000 m, Aug 1990, *A.Hirtz, X.J.del Hierro, & F.Sarmiento 4967*.

6. *Oreophilus compositus* (Luer & Escobar) Archila comb. nov.

Basionym. *Lepanthes composita* Luer & Escobar, Orquideología 19(2): 88, 1994.

Synonym. *Brachycladium compositum* (Luer & R.Escobar) Luer.

Etymology. From the Latin *compositus* of different parts, in allusion to the similarity of certain floral parts to those of other species.

Colombia: Dept. of Risaralda; epiphytic in forest remnant above Pereira alt. ca. 2000 m, Jan 1993, *A.de Wilde 397* (Holotype MO) C. Luer illustr. 15680.

7. *Oreophilus cordilabius* (Luer) Archila comb. nov.

Basionym. *Lepanthes cordilabia* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 88, 2002.

Etymology. Cordilabium because of the heart shape of the lip.

Synonym. *Brachycladium cordilabium* (Luer) Luer.

Ecuador: Zamora-Chinipe; San Francisco station between Loja and Zamora, alt. 2200 m, 9 Jun 2000, *F.Werner 334* (Holotype MO), C. Luer illustr. 19428.

8. *Oreophilus dactylus* (Garay) Archila comb. nov.

Basionym. *Lepanthes dactyla* Garay, Orquideología 6: 13, 1971.

Synonym. *Brachycladium dactylum* (Garay) Luer.

Etymology. From the Greek *dactylos* a finger, referring to the shape of the petals.

Colombia: Dept. of Antioquia, along road between Sonson and Argelia without date or altitude, *G.Escobar, H.R.Sweet, & L.A.Garay 645* (Holotype Ames). Dept. of Boyacá; epiphytic in wet forest between Arcabuco and Moniquirá, alt. 250 m, 26 Apr 1982, *C.Luer, R.Escobar, & D.Portillo 7554* (Holotype MO).

9. *Oreophilus destitutus* (Luer & R. Escobar) Archila comb. nov.

Basionym. *Lepanthes destituta* Luer & R.Escobar, Orquideología 17: 179, 1988.

Synonym. *Brachycladium destitutum* (Luer & R.Escobar) Luer.

Etymology. From the Latin *destitutus* lacking, referring to the visible illusion of absent petals.

Colombia: Dept. of Norte Santander; Munic. of Toledo, epiphytic in cloud forest, Alto de Sta. Ines, alt. 2150 m, 13 May 1984, *C.Luer, J.Luer, R.Escobar, & E.Valencia 10342*.

10. *Oreophilus dielsii* (Mansf.) Archila comb. nov.

Basionym. *Lepanthes dielsii* Mansf., Biblioth. Bot. 29(116): 72, 1937.

Synonym. *Andinia dielsii* (Mansf.) C.A.Luer.

Etymology. Named for Ludwig Diels.

Ecuador: Chimborazo; Tipococha, in mountainous forests, 16 Aug 1933, *L.Diels 554* (Holotype destroyed B). Bolivar; cloud forest at the pass north of Chillanes, alt. 2650 m, 25 Mar 1984, *C.Luer, A.Hirtz, S.Dalström, T.Hoijer, & J.Kuijt 9709* (Neotype MO).

11. *Oreophilus erepsis* (Luer & Hirtz) Archila comb. nov.

Basionym. *Lepanthes erepsis* Luer & Hirtz, Die Orchidee 37: 215, 1986.

Synonym. *Brachycladium erepse* (Luer & Hirtz) Luer.

Etymology. From the Greek *erepsis* "a roof," referring to the broad, concave dorsal sepal.

Ecuador: Prov. Zamora Chinchipe, epiphytic in cloud forest between Yangana and Valladolid, alt. 2450 m, 23 Mar 1985, *C.Luer, J.Luer, A.Hirtz, & W.Flores 10947* (Holotype) same locality, alt. 2000 m, 18 Mar 1984, *C.Luer, S.Dalström, T.Hoijer, D.D'alessandro, & J.Kuijt 9626* (MO).

12. *Oreophilus exiguus* (Luer & L.Jost) Archila comb. nov.

Basionym. *Lepanthes exigua* Luer & L.Jost, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 89, 2002.

Synonym. *Brachycladium exiguum* (Luer & L.Jost) Luer.

Etymology. From the Latin *exiguus* "very small."

Ecuador: Morona-Santiago; cloud forest epiphytic, road between Mendez and Pauta, alt. 1890 m, 14 May 2000. *L.Jost 2042* (Holotype MO), C. Luer illustr. 19424.

13. *Oreophilus geminipetalus* (Luer & J.J.Portilla) Archila comb. nov.

Basionym. *Lepanthes geminipetala* Luer & J.J.Portilla, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 89, 2002.

Synonym. *Brachycladium geminipetalum* (Luer & J.J.Portilla) Luer.

Etymology. From the Latin *geminipetalus* "with twisted petals."

Ecuador: Azuay; Soldado, Molleturo, southwest of Cuenca, cultivated at Ecuagenera, Gualaceo, 4 Mar 2001, *C.Luer 19656* (Holotype MO).

14. *Oreophilus hippocrepicus* (Luer & R.Escobar) Archila comb. nov.

Basionym. *Lepanthes hippocrepica* Luer & R.Escobar, Orquideología 18: 54, 1991.

Synonym. *Brachycladium hippocrepicum* (Luer & R.Escobar) Luer.

Etymology. From the Latin *hippocrepicus*, shaped like a horseshoe, referring to the appearance of the lip encircling the column.

Colombia: Dept. of Antioquia, along road between Sonson and Argelia without date or altitude, *G. Escobar H.R. Sweet, & L.A.Garay 645* (Holotype Ames). Dept. of Boyacá, epiphytic in wet forest between Arcabuco and Moniquirá, alt. 250 m, 26 Apr 1982, *C.Luer, R.Escobar, & D.Portillo 7554* (Holotype MO).

15. *Oreophilus hirtzii* (Luer) Archila comb. nov.

Basionym. *Andinia hirtzii* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 275–276, 2005.

Etymology. named after Alex Hirtz.

Ecuador: Azuay; around Santa Isabel, road to Shaglli, alt. 2000 m, 20 Sept 2004, *A.Hirtz, E.Sanchez, & W&J.Coeck 9061*. Without locality, collected by M. Portilla, cultivated by Ecuagenera, Gualaceo, 4 Mar 2001, *C.Luer 19688* (MO).

16. *Oreophilus irrasus* (Luer & R.Escobar) Archila comb. nov.

Basionym. *Lepanthes irrasa* Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard., 52: 18, 1994.

Synonym. *Brachycladium irrasum* (Luer & R.Escobar) Luer.

Etymology. From the Latin *irrasus* unshaven, referring to the pubescent floral parts.

Colombia: Dept. of Norte Santander Munic. of

Toledo, epiphytic in cloud forest, alto de Sta. Ines, alt. 2150 m, 13 May 1984, *C.Luer, J.Luer, R.Escobar, & E.Valencia* 10342.

17. *Oreophilus lunaris* (Luer) Archila comb. nov.

Basionym. *Lepanthes lunaris* Luer, Monogr. Syst. Bot. Missouri Bot. Gard., 52: 21, 1994.

Synonym. *Brachycladium lunare* (Luer) Luer.

Etymology. From the Latin *lunaris* crescent-shaped, in reference to the petals.

Colombia: Dept. of Putumayo; east cordillera of Sibundoy, alt. 2000 m, 18 Feb 1881, *F.C.Lehmann* 277 (Holotype), *C. Luer* illustr. 14817. Ecuador: Prov. Sucumbus, epiphytic above la Bonita, alt. 1900 m, 8 July 1990, *C.Dodson, E.Hagsater, D.Rubio, & N.Rivera* 14872 (MO), *C. Luer* illustr. 17175.

18. *Oreophilus lupulus* (Luer & Hirtz) Archila comb. nov.

Basionym. *Lepanthes lupula* Luer & Hirtz, American Orchid Soc. Bull. 53: 1162, 1984.

Synonym. *Brachycladium lupulum* (Luer & Hirtz) Luer.

Etymology. From the Latin *lupulus* a little wolf, referring to the appearance of the column and lip.

Ecuador: Prov. of Pichincha along the new road from Quito to Tandapi above Chiriboga, alt. 2100 m, 31 Mar 1984, *C.Luer, A.Hirtz, S.Dalström, T.Hoijer, & J.Kuit* 9828 (MO).

19. *Oreophilus lynnianus* (Luer) Archila comb. nov.

Basionym. *Lepanthes lynniana* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 91, 2002.

Synonym. *Brachycladium lynnianum* (Luer) Luer.

Etymology. Named for Lynn O'Shaughnessy, an important Pleurothallidinae grower.

Ecuador: Without data, obtained from Jose Portilla, cultivated in Howell, MI, flowered Jan 2001, *Lynn O'Shaughnessy* 00689 (Holotype: MO), *Luer* illustr. 19462.

20. *Oreophilus micropetalus* (L.O.Williams) Archila comb. nov.

Basionym. *Lepanthes micropetala* L.O.Williams, Bot. Mus. Leaf. 9: 4, 1940.

Synonym. *Brachycladium micropetalum* (L.O.Williams) Luer.

Etymology. From the Greek *micropetalon*

“small petal,” referring to the microscopic petals.

Colombia: Dept., of Cauca, east of el Caramelo, alt. 250–2700 m, collected by E. Valencia. Flowered in cultivation at Colombiorquideas 11 May 1985. *C. Luer* 11332 (MO). Ecuador: Prov. Carchi Chinchipe, epiphytic in cloud forest between Yangana and Valladolid, alt. 2450 m, 23 Mar 1985, *C.Luer, J.Luer, A.Hirtz, & W.Flores* 10947 (Holotype); same locality, alt. 2000 m, 18 Mar 1984, *C.Luer, S.Dalström, T.Hoijer, D.D'alessandro, & J.Kuit* 9626 (MO).

21. *Oreophilus monilius* (Luer & R.Escobar) Archila comb. nov.

Basionym. *Lepanthes monilia* Luer & R.Escobar, Orquideología 16: 12, 1983.

Synonym. *Brachycladium monilium* (Luer & R.Escobar) Luer.

Etymology. From the Latin *monilia* necklaces, in allusion to the leafy pendent habit.

Colombia: Dept. of Boyacá, epiphytic in wet forest between Duiwtama and Moniquirà, alt. 250 m, 26 Apr 1982, *C.Luer, R.Escobar, & D.Portillo* 7554 (Holotype:MO).

22. *Oreophilus nummularius* (Rchb.f.) Archila comb. nov.

Basionym. *Lepanthes nummularia* Rchb.f., Xenia Orchid. 1: 142, 1858.

Synonym. *Brachycladium nummularium* (Rchb.f.) Luer.

Etymology. From the Latin *numularis* like small coins, alluding to appearance of the habit.

Ecuador: Prov. of Pichincha along the new road from Quito to Tandapi above Chiriboga, alt. 2100 m, 31 Mar 1984, *C.Luer, A.Hirtz, S.Dalström, T.Hoijer, & J.Kuit* 9828 (MO). Colombia: Dept. of Antioquia alto de minas, along road between Sonson and Argelia, without date or altitude, *G.Escobar H.R.Sweet, & L.A.Garay* 645 (Holotype Ames); Dept. of Boyacá, epiphytic in wet forest between Arcabuco and Moniquirà, alt. 250 m, 26 Apr 1982, *C.Luer, R.Escobar, & D.Portillo* 7554 (Holotype MO).

23. *Oreophilus octocornutus* (Luer) Archila comb. nov.

Basionym. *Lepanthes octocornuta* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 91, 2002.

Synonym. *Brachycladium octocornutum* (Luer) Luer.

Etymology. From the Latin *octocornutus* “eight-horned.”

Ecuador: Zamora-Chinchipe; San Francisco station between Loja and Zamora, alt. 2200 m, 9 Jun 2000, *F. Werner 329a* (Holotype: MO), C. Luer illustr. 19426.

24. *Oreophilus pendens* (Garay) Archila comb. nov.

Basionym. *Lepanthes pendens* Garay, Canad. J. Bot. 34: 252, 1956.

Synonym. *Brachycladium pendens* (Garay) Luer.

Etymology. from the Latin *pendens* pendent, in reference to the habit.

Colombia: Dept. of Cundimarca; cordillera oriental south of Bogotá alto de Tunque east of Gutiérrez, temperate forest alt. 2515 m, 31 July 1944, *M.L. Grant 9770*, (Holotype US, isotypes AMES WIS) July 1916, *M.T. Dawe 317*.

25. *Oreophilus pensilis* (Schltr.) Archila comb. nov.

Basionym. *Lepanthes pensilis* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 8: 55, 1921.

Synonym. *Andinia pensilis* (Schltr.) Luer.

Etymology. From the Latin *pensilis* "pendent."

Ecuador: Imbabura; cloud forest near Lago Mojanda, west of Otavalo, alt. 3300 m, 17 Feb 1998, *C. Luer, J. Luer, A. Hirtz, & J. del Hierro 18705* (MO); Mojanda, Nov 1888, *A. Sodiro S.J. 169/21bis* (BR, MO). Chimborazo; in mountains above Riobamba, *A. Mille s.n.* (Holotype destroyed at B).

26. *Oreophilus persimilis* (Luer & Sijm) Archila comb. nov.

Basionym. *Lepanthes persimilis* Luer & Sijm, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 92, 2002.

Synonym. *Brachycladium persimile* (Luer & Sijm) Luer.

Etymology. From the Latin *persimilis* "very similar."

Ecuador: without collection data, obtained from Johannes Pap, flowered in cultivation 11 Aug 2000, *A.P. Sijm 991112* (Holotype: MO), C. Luer illustr. 19384.

27. *Oreophilus pholeter* (Luer) Archila comb. nov.

Basionym. *Lepanthes pholeter* Luer, Monogr. Syst. Bot. Missouri Bot. Gard., 52: 33, 1994.

Synonym. *Brachycladium pholeter* (Luer) Luer.

Etymology. from the Greek *pholeter* a cave dweller, in allusion to the petals, lip, and column deep within the sepaline cup.

Perú: Dept. of Amazonas; Bagua east of la Peca, epiphytic on the top branch of a canopy tree, alt. 1700 m, 29 June 1978, *P. Barbour 2576* (Holotype) C, Luer illustr. 8701.

28. *Oreophilus pilosellus* (Rchb. f.) Archila comb. nov.

Basionym. *Lepanthes pilosella* Rchb.f., Flora 69: 556, 1886.

Synonym. *Brachycladium pilosellum* (Rchb.f.) Luer.

Etymology. from the Latin *pilosilla* a little hairy one, in reference to the pubescent leaves.

Without collection data.

29. *Oreophilus platysepalus* (Luer & R. Escobar) Archila comb. nov.

Basionym. *Lepanthes platysepala* Luer & R. Escobar, Monogr. Syst. Bot. Missouri Bot. Gard., 52: 36, 1994.

Synonym. *Brachycladium platysepalum* (Luer & R. Escobar) Luer.

Etymology. from the Greek *platysepalon* a flat sepal in reference to the pubescent leaves.

Colombia: Dept. de Antioquia; epiphytic in forest remnant east Santo Domingo, alt. 1920 m, 12 May 1985, *C. Luer, R. Escobar, & Valencia 11354*, 11 May 1985, C. Luer illustr. 11333 (MO).

30. *Oreophilus pseudocaulescens* (L.B.Sm. & Harris) Archila comb. nov.

Basionym. *Lepanthes pseudocaulescens* L.B.Sm. & Harris, Bot. Mus. Leaflet. 2: 33, 1934.

Synonym. *Brachycladium pseudocaulescens* (L.B.Sm. & Harris) Luer.

Etymology. from the Greek *pseudo-* false anther, and Latin *caulescens* becoming stem-like, in reference to some unknown aspect of the habit.

Colombia: Dept. of Cauca, highlands of Popayan alt. 1400–1800 m, July 1901, *F.C. Lehmann BT 352* (Holotype GH, isotypes AMES, G). Ecuador: Prov. of Napo, epiphytic in forest on the eastern slopes of Reventador Volcano, alt. 1850 m, 8 Feb 1986, *C. Luer, J. Luer, A. Hirtz, W. Flores, & A. Embree 11715* (MO).

31. *Oreophilus ricii* (Luer & R. Vásquez) Archila comb. nov.

Basionym. *Lepanthes ricii* Luer & R. Vásquez,

Monogr. Syst. Bot. Missouri Bot. Gard., 52: 40, 1994.

Synonym. *Brachycladium ricii* (Luer & R.Vásquez) Luer.

Etymology. Named in honor of Darwin Rico of Montero, Bolivian co-discoverer of this species.

Bolivia: Dept. of Santa Cruz; Prov. of Caballeros north of Comarapa, alt. 2380 m, 2 Nov 1990, R.Vásquez, D.Rico, & A.Burela 1277 (Holotype) C. Luer illustr. 15533.

32. *Oreophilus stalactites* (Luer & Hirtz) Archila comb. nov.

Basionym. *Lepanthes stalactites* Luer & Hirtz, Lindleyana 2: 105, 1987.

Synonym. *Brachycladium stalactites* (Luer & Hirtz) Luer.

Etymology. From the Greek *stalaktos*, a stalactite, in reference to the dangling habit of the plant.

Ecuador: Prov. of Loja epiphytic in cold cloud forest above Jimbura, alt. 300 m, 21 Mar 1984, C.Luer & A.Hirtz. s.n. Same area 21 Feb 1986, alt. 2900 m, C.Luer, J.Luer, A.Hirtz, W.Flores, & A.Embree 11991 (MO). Peru: Dept. of Piura Ayabaca along trail to Laguna Prieta, alt. 3154 m, 16 Mar 1993, D.Bennett 5844 (MO).

33. *Oreophilus triangularis* (Luer) Archila comb. nov.

Basionym. *Lepanthes triangularis* Luer, Monogr. Syst. Bot. Missouri Bot. Gard., 52: 43, 1994.

Synonym. *Brachycladium triangulare* (Luer) Luer.

Etymology. From the Latin *triangularis* triangular, referring to the shape of the flower.

Colombia: Dept. de Magdalena Sierra Nevada de Santa Marta between la Cebolleta and Yerba Buena, alt. ca. 2300 m, Jan–Feb 1959, H.G.Barclay & P.Juajibioyt 6809 (Holotype) C: Luer illustr. 17011.

34. *Oreophilus tridactylus* (Luer) Archila comb. nov.

Basionym. *Lepanthes tridactyla* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 92, 2002.

Synonym. *Brachycladium tridactylum* (Luer) Luer.

Etymology. From the Greek *tridactylos* “three-fingered.”

Ecuador: Zamora-Chinchipe; San Francisco sta-

tion between Loja and Zamora, alt. 2200 m, 9 June 2000, F.Werner 329b (Holotype MO), C. Luer illustr. 19427.

35. *Oreophilus ursulus* (Luer & R.Escobar) Archila comb. nov.

Basionym. *Lepanthes ursula* Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard., 52: 46, 1994.

Synonym. *Brachycladium ursulum* (Luer & R.Escobar) Luer.

Etymology. from the Latin *ursula* a cub bear, in allusion to the large woolly leaves and dorsal sepal.

Colombia: Dept. of Boyacà epiphytic in scrub forest between Duitama and Virolin, alt. 2600 m, 1 June 1982, C. Luer, J. Luer, R. Escobar, & D. Portillo 8034 (Holotype SEL).

36. *Oreophilus viebrockianus* (Luer & L.Jost) Archila comb. nov.

Basionym. *Lepanthes viebrockiana* Luer & L.Jost, Monogr. Syst. Bot. Missouri Bot. Gard., 72: 108, 1998.

Synonym. *Brachycladium viebrockianum* (Luer & L.Jost) Luer.

Etymology. Named for Betty Viebrock.

Ecuador: Tungurahua; Cerro Abitagua, alt. 1750 m, 8 June 1998, L.Jost 1035 (Holotype MO), C. Luer illustr. 18929.

37. *Oreophilus villosus* (Løjtntant) Archila comb. nov.

Basionym. *Lepanthes villosa* Løjtntant, Bot. Notiser. 130, 1977.

Synonym. *Brachycladium villosum* (Løjtntant) Luer.

Etymology. from the Latin *villosus*, referring to the long pubescent petals.

Ecuador: Prov. Carchi Chinchipe, epiphytic in cloud forest between Yangana and Valladolid, alt. 2450 m, 23 Mar 1985, C.Luer, J.Luer, A.Hirtz, & W. Flores 10947 (Holotype); same locality, alt. 2000 m, 18 Mar 1984, C.Luer. S.Dalström, T.Hoijer D.D'alessandro, & J.Kuijt 9626 (MO).

38. *Oreophilus weneri* (Luer) Archila comb. nov.

Basionym. *Lepanthes weneri* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 93, 2002.

Synonym. *Brachycladium weneri* (Luer) Luer.

Etymology. Named for Florian Werner.

Ecuador: Zamora-Chinchi; San Francisco station between Loja and Zamora, alt. 2200 m, June 2000, *F. Werner 333* (Holotype MO), C. Luer illustr. 19429. Without collection data, obtained from Jose Portilla, cultivated in Howell, MI, flowered Sept 2000, *L.O'Shaughnessy PL00508* (MO), C. Luer illustr. 19423.

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